

Amendments to the Claims

10. (Previously Presented) A magnetic recording disk comprising:

a substrate;

a nonferromagnetic underlayer on the substrate;

a magnetic recording layer on the underlayer and having a plurality of concentric data tracks, the recording layer comprising a first cobalt alloy ferromagnetic film, a nonferromagnetic spacer film of a material selected from the group consisting of ruthenium (Ru), chromium (Cr), rhodium (Rh), iridium (Ir), copper (Cu), and their alloys formed on and in contact with the first ferromagnetic film, and a second cobalt alloy ferromagnetic film formed on and in contact with the spacer film, each of the data tracks on the magnetic recording layer being patterned along the track into first regions wherein the spacer film has a thickness sufficient to induce the second ferromagnetic film to be exchange coupled antiferromagnetically to the first ferromagnetic film across the spacer film and second regions wherein the first and second ferromagnetic films are not antiferromagnetically coupled, whereby each of said second regions [produce] produces a magnetic field a predetermined distance above the magnetic layer that is greater than the magnetic field from each of said first regions, the magnetic fields above the second regions representing the bits along the data track; and

a protective overcoat formed on the magnetic recording layer.